



- [1] **EU-TYPE EXAMINATION CERTIFICATE - Translation**
- [2] Equipment or protective systems intended for use in potentially explosive atmospheres, Directive 2014/34/EU
- [3] EU-type examination certificate number **IBExU17ATEX1030 X** | Issue 0
- [4] Product: **Level Sensors**  
Types: 901 and 930
- [5] Manufacturer: **Stein Sohn GmbH**
- [6] Address: Ostsraße 52  
22844 Norderstedt  
GERMANY
- [7] This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- [8] IBExU Institut für Sicherheitstechnik GmbH, Notified Body number 0637 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the essential health and safety requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.
- The examination and test results are recorded in the confidential test report IB-17-3-0001.
- [9] Compliance with the essential health and safety requirements has been assured by compliance with: EN 60079-0:2012+A11:2013, EN 60079-11:2012 except in respect of those requirements listed at item [18] of the schedule.
- [10] If the sign "X" is placed after the certificate number, it indicates that the product is subject to the specific conditions of use specified in the schedule to this certificate.
- [11] This EU-type examination certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.
- [12] The marking of the product shall include the following:

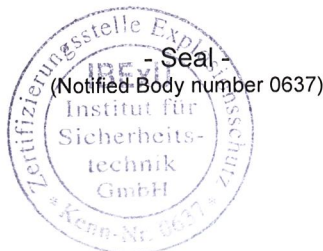
**Ex II 1G Ex ia IIB T4 Ga**

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By order

(Dipl.-Ing. Willamowski)



Certificates without signature and seal are not valid. Certificates may only be duplicated completely and unchanged. In case of dispute, the German text shall prevail.

Freiberg, 2017-04-06

[13] **Schedule**

[14] **Certificate number IBExU17ATEX1030 X | Issue 0**

[15] **Description of product**

The level sensor types 901 and 930 are pressure transmitter in the high-grade steel enclosure with process tap Or as immersion probe. The equipments are intended for use in potentially hazardous areas, where category 1G devices are required. An intrinsically safe power supply must be used for the power supply.

Category 1 equipment

The sensor of the pressure measuring device may be operated in explosive atmospheres which require equipment of category 1 only if there are atmospheric conditions (temperature from -20 °C to +60 °C, pressure from 0.8 bar to 1.1 bar).

Ambient temperature range: from -20 °C to +60 °C  
Degree of protection of the enclosure: IP 67

Supply and signal electric circuit in type of protection Intrinsic Safety Ex ia IIB

(+/-)	$U_i$	28 V DC
	$I_i$	93 mA
	$P_i$	660 mW
effective inner capacity	$C_i$	105 nF
effective inner inductivity	$L_i$	5 µH
plus cable inductances 1 µH / m and cable capacities 100 pF / m		

The supply connections have an inner capacity of max. 140 nF opposite the enclosure.

[16] **Test report**

The test results are recorded in the confidential test report IB-17-3-0001 of 2017-04-06.  
The test documents are part of the test report and they are listed there.

*Summary of the test results*

The level sensor types 901 and 930 fulfill the requirements of type of protection Intrinsic safety ,ia' for an electrical component for equipment group II category 1G, explosion group IIB and temperature class T4.

[17] **Specific conditions of use**

- The ambient temperature range is fixed from -20 °C to +60 °C.
- The safety and assembly notes contained in the operating instructions have to be observed.

[18] **Essential health and safety requirements**

In addition to the essential health and safety requirements (EHSRs) covered by the standards listed at item [9], the following are considered relevant to this product, and conformity is demonstrated in the test report: not applicable

[19] **Drawings and Documents**

The documents are listed in the test report.

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Freiberg, 2017-04-06